

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application.

1.-18. (Cancelled)

19. (Currently Amended) A particle comprising:

(a) a protein envelope with a fusion protein, the fusion protein comprising a virus protein, a cell permeability-mediating peptide, and a heterologous cell-specific binding site; and

(b) nucleic acid sequences present ~~[[in]]~~within the protein envelope, each of the nucleic acid sequences comprising a sequence encoding a virus-specific packaging signal and a sequence encoding a structural gene.

20. (Currently Amended) The particle of claim ~~[[18]]~~19, wherein the virus protein is derived from a virus selected from the group consisting of adenovirus, adeno-associated virus, vaccinia virus, baculovirus and hepadnavirus.

21. (Currently Amended) The particle of claim ~~[[19]]~~20, wherein the hepadnavirus is a hepatitis B virus.

22. (Currently Amended) The particle of claim ~~[[18]]~~19, wherein the virus protein is a surface protein.

23. (Currently Amended) The particle of claim 22, wherein the surface protein is ~~[[an]]~~ the large surface protein of HBV (LHBs).

24. (Currently Amended) The particle of claim ~~[[18]]~~19, wherein the virus protein is a core protein.

25. (Currently Amended) The particle of claim ~~[[23]]~~24, wherein the core protein is an HBcAg.

26. (Currently Amended) The particle of claim ~~[[18]]~~19, wherein the cell permeability-mediating peptide comprises the amino acid sequence set forth in SEQ ID NO:20.
27. (Currently Amended) The particle of claim ~~[[18]]~~19, wherein the heterologous cell-specific binding site is RGD.
28. (Currently Amended) The particle of claim ~~[[18]]~~19, wherein the fusion protein comprises an amino acid sequence selected from the group consisting of SEQ ID NO:1 and SEQ ID NO:2.
29. (Currently Amended) The particle of claim ~~[[18]]~~19, wherein the fusion protein comprises the amino acid sequence set forth in SEQ ID NO:1.
30. (Currently Amended) The particle of claim ~~[[18]]~~19, wherein the fusion protein consists of~~[[has]]~~ the amino acid sequence set forth in SEQ ID NO:1.
31. (Currently Amended) The particle of claim ~~[[18]]~~19, wherein the fusion protein comprises the amino acid sequence set forth in SEQ ID NO:2.
32. (Currently Amended) The particle of claim ~~[[18]]~~19, wherein the fusion protein consists of~~[[has]]~~ the amino acid sequence set forth in SEQ ID NO:2.
33. (Currently Amended) A method for the preparation of the particle according to claim ~~[[18]]~~19, wherein the fusion protein contains an LHBs and a heterologous cell-specific binding site, the method comprising:
- (a) cotransfecting cells containing a hepatitis B virus genome and not expressing LHBs~~, wherein the cells do not express LHBs~~, with a first expression vector and a second expression vector, the first expression vector coding for a fusion protein~~, the fusion protein~~ comprising an LHBs and a heterologous cell-specific binding site, and the~~[[with a]]~~ second expression vector comprising a virus-specific packaging signal and a structural ~~gene, and gene~~gene;

- (b) cultivating the cotransfected cells of step (a) to produce the particle; and
- (c) isolating and purifying the particles produced by the cotransfected cells of step (a).

34. (Withdrawn) A method for the preparation of the particle according to claim ~~[[18]]19~~, wherein the particle comprising a fusion protein comprises an HBcAg, a cell permeability-mediating peptide and a heterologous cell-specific binding site, the method comprising:

- (a) cotransfecting cells containing an HBV polymerase with a first expression vector and a second expression vector, the first expression vector coding for a fusion protein, ~~the fusion protein~~ comprising an HBcAg, a cell permeability-mediating peptide and a heterologous cell-specific binding site, and ~~[[with a]]the~~ second expression vector comprising a virus-specific packaging signal and a structural ~~gene, and gene~~;
- (b) cultivating the cotransfected cells of step (a) to produce the particle; and
- (c) isolating and purifying the particles produced by the cotransfected cells of step (a).

35. (Withdrawn) A fusion protein comprising a virus protein, a cell permeability-mediating peptide and a heterologous cell-specific binding site.

36. (Withdrawn) The fusion protein of claim ~~[[34]]35~~, comprising an amino acid sequence selected from the group consisting of SEQ ID NO:1 and SEQ ID NO:2.

37. (Withdrawn) The fusion protein of claim ~~[[34]]35~~, comprising the amino acid sequence set forth in SEQ ID NO:1.

38. (Withdrawn) The fusion protein of claim ~~[[34]]35~~, comprising the amino acid sequence set forth in SEQ ID NO:2

39. (Withdrawn) The fusion protein of claim ~~[[35]]36~~, wherein the amino acid sequence differs from that set forth in SEQ ID NO:1 or SEQ ID NO:2 by one amino acid.
40. (Withdrawn) The fusion protein of claim ~~[[35]]36~~, wherein the amino acid sequence differs from that set forth in SEQ ID NO:1 or SEQ ID NO:2 by up to 10%.
41. (Withdrawn) The fusion protein of claim ~~[[35]]36~~, wherein the amino acid sequence differs from that set forth in SEQ ID NO:1 or SEQ ID NO:2 by up to 20%.
42. (Withdrawn) A DNA encoding the fusion protein of claim ~~[[34]]35~~.
43. (Withdrawn) A DNA encoding the fusion protein of claim ~~[[35]]36~~, the DNA comprising a nucleotide sequence selected from the group consisting of SEQ ID NO:3 and SEQ ID NO:4.
44. (Withdrawn) A DNA encoding the fusion protein of claim ~~[[35]]36~~, the DNA comprising the nucleotide sequence set forth in SEQ ID NO:3.
45. (Withdrawn) A DNA encoding the fusion protein of claim ~~[[35]]36~~, the DNA comprising the nucleotide sequence set forth in SEQ ID NO:4.
46. (Withdrawn) The DNA of claim ~~[[42]]43~~, wherein the nucleotide sequence differs from that set forth in SEQ ID NO:3 or SEQ ID NO:4 by one base pair.
47. (Withdrawn) The DNA of claim ~~[[42]]43~~, wherein the nucleotide sequence differs from that set forth in SEQ ID NO:3 or SEQ ID NO:4 by up to 10%.
48. (Withdrawn) The DNA of claim ~~[[42]]43~~, wherein the nucleotide sequence differs from that set forth in SEQ ID NO:3 or SEQ ID NO:4 by up to 20%.
49. (Withdrawn) A DNA encoding the fusion protein of claim ~~[[35]]36~~, wherein the DNA has the nucleotide sequence set forth in SEQ ID NO:3.
50. (Withdrawn) A DNA encoding the fusion protein of claim ~~[[35]]36~~, wherein the DNA has the nucleotide sequence set forth in SEQ ID NO:4.

51. (Withdrawn) An expression vector which encodes the DNA of claim  
[[42,]] 43, 44, 45, 46, 47, 48, [[or ]]49 or 50.